EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	"736739".ap.	US-PGPUB; USPAT	OR	ON	2007/03/05 12:58
L2	608	564/163.ccls.	US-PGPUB; USPAT	OR	ON	2007/03/05 12:59
L3	317	562/504.ccls.	US-PGPUB; USPAT	OR	ON	2007/03/05 12:59
L4	1388	514/563.ccls.	US-PGPUB; USPAT	OR	ON	2007/03/05 12:59
L5	9	L3 and L4	US-PGPUB; USPAT	OR	ON	2007/03/05 12:59
L6	0	L5 and l2	US-PGPUB; USPAT	OR	ON	2007/03/05 12:59
L7	0	L3 and l2	US-PGPUB; USPAT	OR	ON	2007/03/05 13:00
L8	158	549/83.ccls.	US-PGPUB; USPAT	OR	ON	2007/03/05 13:00
L9	550	549/72.ccls.	US-PGPUB; USPAT	OR	ON	2007/03/05 13:00
L10	1	l8 and l9	US-PGPUB; USPAT	OR	ON	2007/03/05 13:00
L11	379	549/71.ccls.	US-PGPUB; USPAT	OR	ON	2007/03/05 13:01
L12	3	l11 and l8	US-PGPUB; USPAT	OR	ON	2007/03/05 13:01
S1	6	"736711".ap.	US-PGPUB; USPAT	OR	ON	2006/10/10 10:21
S2	102	562/603.ccls.	US-PGPUB; USPAT	OR	ON	2006/04/24 09:03
S3	0	562/604.6.ccls.	US-PGPUB; USPAT	OR	ON	2006/04/24 09:01
S4	0	562/504.6.ccls.	US-PGPUB; USPAT	OR	ON	2006/04/24 09:02
S5	312	562/504.ccls.	US-PGPUB; USPAT	OR	ON	2006/04/24 09:02
S6	126	562/622.ccls.	US-PGPUB; USPAT	OR	ON	2006/04/24 09:02
S7	1	S2 and S5	US-PGPUB; USPAT	OR	ON	2006/04/24 09:03
S8	0	S2 and S6	US-PGPUB; USPAT	OR	ON	2006/04/24 09:03
S9	1250	514/563.ccls.	US-PGPUB; USPAT	OR	ON	2006/04/24 09:03

EAST Search History

S10	0	S2 and S9	US-PGPUB; USPAT	OR	ON	2006/04/24 09:04
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S15	3	"736739".ap.	US-PGPUB; USPAT	OR	ON	2007/03/05 12:44
S16	0	"7071355".ap.	US-PGPUB; USPAT	OR	ON	2006/10/10 10:21
S17	1	"7071355".pn.	US-PGPUB; USPAT	OR	ON	2006/10/10 10:21

clear of arts except ODP overcame by TD.

10736,739B Yong Chu 3-5-2007

$%^STN;HighlightOn=;HighlightOff=;

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NEWS 9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS 10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS 11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 13	DEC 18	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14	DEC 18	CA/CAplus patent kind codes updated
NEWS 15	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 17	DEC 27	CA/CAplus enhanced with more pre-1907 records
NEWS 18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 23	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 24	JAN 29	PHAR reloaded with new search and display fields
NEWS 25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 26	FEB 13	CASREACT coverage to be extended
NEWS 27	Feb 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 28	Feb 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 29	Feb 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 30	Feb 26	MEDLINE reloaded with enhancements
NEWS 31	Feb 26	EMBASE enhanced with Clinical Trial Number field
NEWS 32	Feb 26	TOXCENTER enhanced with reloaded MEDLINE

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NEWS 33   Feb 26   IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 34   Feb 26   CAS Registry Number crossover limit increased from 10,000
                   to 300,000 in multiple databases

NEWS EXPRESS  NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS    STN Operating Hours Plus Help Desk Availability
NEWS LOGIN    Welcome Banner and News Items
NEWS IPC8     For general information regarding STN implementation of IPC 8
NEWS X25      X.25 communication option no longer available

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FILE 'HOME' ENTERED AT 10:52:43 ON 05 MAR 2007

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       2.94       2.94

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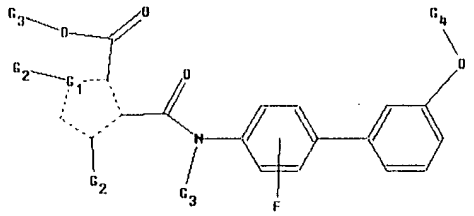
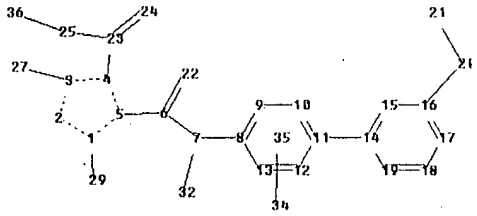




chain nodes :
6 7 20 21 22 23 24 25 27 29 32 34 36
ring nodes :
1 2 3 4 5 8 9 10 11 12 13 14 15 16 17 18 19
chain bonds :
1-29 3-27 4-23 5-6 6-7 6-22 7-8 7-32 11-14 16-20 20-21 23-24 23-25 25-36

ring bonds :
1-2 1-5 2-3 3-4 4-5 8-9 8-13 9-10 10-11 11-12 12-13 14-15 14-19 15-16 16-17 17-18 18-19
exact/norm bonds :
1-2 1-5 1-29 2-3 3-4 3-27 4-5 4-23 5-6 6-7 6-22 7-8 7-32 11-14 16-20 20-21 23-24 23-25 25-36
normalized bonds :
8-9 8-13 9-10 10-11 11-12 12-13 14-15 14-19 15-16 16-17 17-18 18-19

G1:C,S

G2:H,OH,CH3

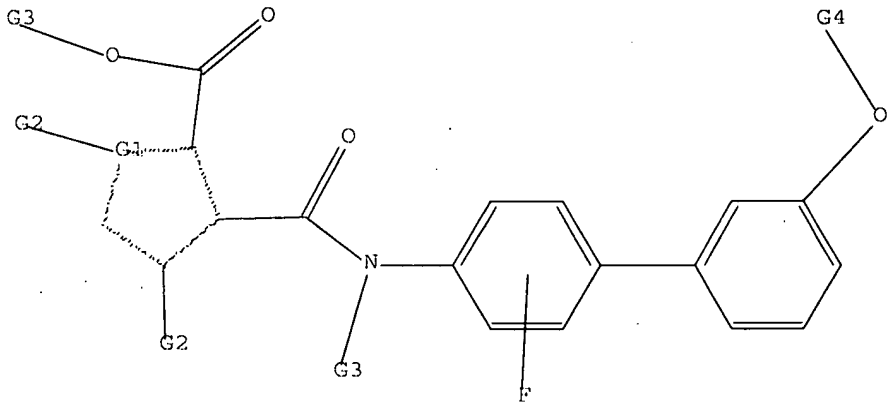
G3:H,CH3

G4:CH3,CH2,CF3

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:CLASS 21:CLASS
22:CLASS 23:CLASS 24:CLASS 25:CLASS 27:CLASS 29:CLASS 32:CLASS 34:CLASS
35:Atom 36:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



G1 C,S
G2 H,OH,Me
G3 H,Me
G4 Me,CH2,CF3

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 11:01:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 90 TO ITERATE

100.0% PROCESSED 90 ITERATIONS 27 ANSWERS
SEARCH TIME: 00.00.01

L3 27 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
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=> s l3
L4 6 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:87597 CAPLUS Full-text
DOCUMENT NUMBER: 144:304503
TITLE: Dual Binding Mode of a Novel Series of DHODH Inhibitors
AUTHOR(S): Baumgartner, Roland; Walloschek, Markus; Kralik, Martin; Gotschlich, Astrid; Tasler, Stefan; Mies, Jan; Leban, Johann
CORPORATE SOURCE: 4SC AG, Martinsried, 82152, Germany
SOURCE: Journal of Medicinal Chemistry (2006), 49(4), 1239-1247
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

late

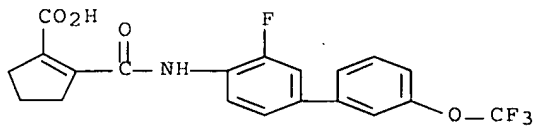
AB Human dihydroorotate dehydrogenase (DHODH) represents an important target for the treatment of hyperproliferative and inflammatory diseases. In the cell DHODH catalyzes the rate-limiting step of the de novo pyrimidine biosynthesis. DHODH inhibition results in beneficial immunosuppressant and antiproliferative effects in diseases such as rheumatoid arthritis. Here, we present high-resoln. X-ray structures of human DHODH in complex with a novel class of low mol. wt. compds. that inhibit the enzyme in the nanomolar range. Some compds. showed an interesting dual binding mode within the same cocrystal strongly depending on the nature of chem. substitution. Measured in vitro activity data correlated with the prevailing mode of binding and explained the obsd. structure-activity relationship. Addnl., the X-ray data confirmed the competitive nature of the inhibitors toward the putative ubiquinone binding site and will guide structure-based design and synthesis of mols. with higher activity.

IT 669063-49-4 669063-57-4 669063-59-6
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)
(dual binding mode of novel series of DHODH inhibitors)

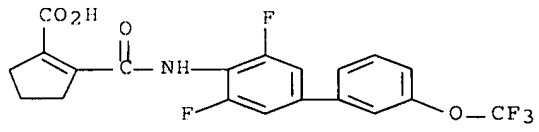
RN 669063-49-4 CAPLUS

CN 1-Cyclopentene-1-carboxylic acid, 2-[[[3-fluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



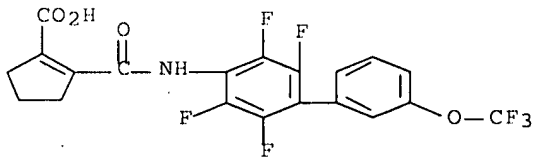
RN 669063-57-4 CAPLUS

CN 1-Cyclopentene-1-carboxylic acid, 2-[[[3,5-difluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 669063-59-6 CAPLUS

CN 1-Cyclopentene-1-carboxylic acid, 2-[[[2,3,5,6-tetrafluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1251585 CAPLUS Full-text

DOCUMENT NUMBER: 144:150196

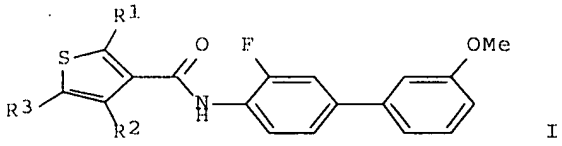
TITLE: Biphenyl-4-ylcarbamoyl thiophenecarboxylic acids as potent DHODH inhibitors

AUTHOR(S): Leban, Johann; Kralik, Martin; Mies, Jan; Baumgartner, Roland; Gassen, Michael; Tasler, Stefan

CORPORATE SOURCE: 4SC AG, Martinsried, 82152, Germany

SOURCE: Bioorganic & Medicinal Chemistry Letters (2006), 16(2), 267-270
CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:150196
GI



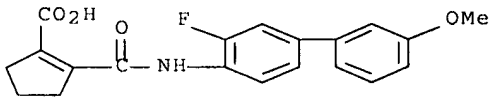
I

AB A previously discovered dihydroorotate dehydrogenase (DHODH) inhibitor series was further improved by replacing the cyclopentene ring by arom. heterocycles. Different isomers of these compds., e.g. I (R1 = R2 = HO2C, R3 = H; R1 = R3 = HO2C, R2 = H; R1 = H, R2 = R3 = HO2C), were prepd. by the directed ortho-metalation procedure. The compds. are more active than the corresponding cyclopentene analogs and show potent effects on periferal blood mononuclear cell (PBMC) proliferation.

IT 717824-30-1
RL: PAC (Pharmacological activity); BIOL (Biological study)
(prepn. and biol. evaluation of biphenylcarbamoyl thiophene- and furancarboxylic acids as dihydroorotate dehydrogenase inhibitors and periferal blood mononuclear cell antiproliferative agents)

RN 717824-30-1 CAPLUS

CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)



late

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1024942 CAPLUS Full-text
DOCUMENT NUMBER: 143:398883
TITLE: SAR, species specificity, and cellular activity of cyclopentene dicarboxylic acid amides as DHODH inhibitors
AUTHOR(S): Leban, Johann; Kralik, Martin; Mies, Jan; Gassen, Michael; Tentschert, Karin; Baumgartner, Roland
CORPORATE SOURCE: 4SC AG, Martinsried, 82152, Germany
SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(21), 4854-4857
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 143:398883

AB Novel DHODH inhibitors were developed based on a previously described series by introduction of heteroatoms into the cyclopentene ring and hydroxyl groups attached to it. Also, the hydrophobic biphenyl side chain was replaced with benzyloxy Ph groups. Activities on human, rat, and mouse enzymes indicate a species specificity of these inhibitors.

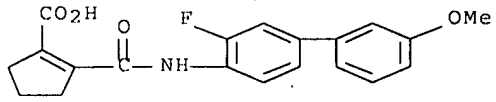
IT 717824-30-1P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(cyclopentene dicarboxylic acid amides as DHODH inhibitors)

RN 717824-30-1 CAPLUS

CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)



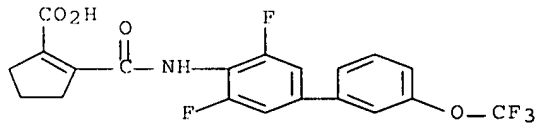
IT 669063-57-4P 669063-59-6P 717824-35-6P 717824-36-7P 867287-88-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cyclopentene dicarboxylic acid amides as DHODH inhibitors)

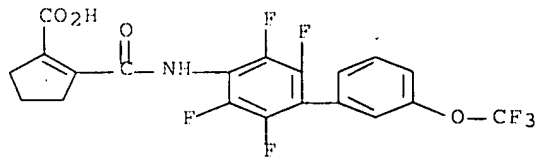
RN 669063-57-4 CAPLUS

CN 1-Cyclopentene-1-carboxylic acid, 2-[[[3,5-difluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)

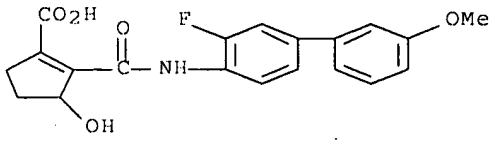


RN 669063-59-6 CAPLUS

CN 1-Cyclopentene-1-carboxylic acid, 2-[[[2,3,5,6-tetrafluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 717824-35-6 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]-3-hydroxy- (9CI) (CA INDEX NAME)



RN 717824-36-7 CAPLUS
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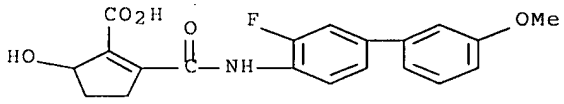

RN 867287-88-5 CAPLUS
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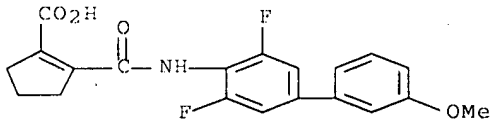

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:550931 CAPLUS Full-text
DOCUMENT NUMBER: 141:99739
TITLE: Dihydroorotate dehydrogenase (DHODH) inhibitors and method for their identification
INVENTOR(S): Leban, Johann; Kramer, Bernd; Baumgartner, Roland; Aulinger-Fuchs, Katharina; Tasler, Stefan
PATENT ASSIGNEE(S): 4SC A.-G., Germany
SOURCE: PCT Int. Appl., 357 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2004056747	A1	20040708	WO 2003-EP14435		20031217
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW					
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US 2007027193	A1	20070201	US 2004-736739		20041110
PRIORITY APPLN. INFO.:			DE 2002-10260799	A	20021223
			DE 2002-10260800	A	20021223
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			US 2002-435258P	P	20021223
			US 2002-435285P	P	20021223
			US 2003-526992P	P	20031205
			WO 2003-EP14435	W	20031217

TD → Current Appl.

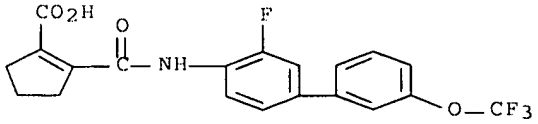
OTHER SOURCE(S): MARPAT 141:99739

AB The present invention relates to compds. contg. non-arom. ring systems or heteroarom. ring systems, which are capable of binding to the ubiquinone binding site of DHODH. Methods for identification of such compds. are also disclosed.

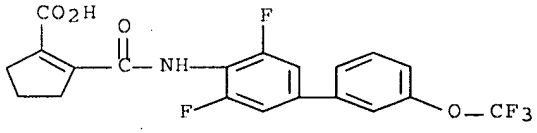
IT 669063-49-4D, complexes with dihydroorotate dehydrogenase
669063-57-4D, complexes with dihydroorotate dehydrogenase
669063-59-6D, complexes with dihydroorotate dehydrogenase
717824-30-1D, complexes with dihydroorotate dehydrogenase
717824-33-4D, complexes with dihydroorotate dehydrogenase
717824-34-5D, complexes with dihydroorotate dehydrogenase
717824-35-6D, complexes with dihydroorotate dehydrogenase
717824-36-7D, complexes with dihydroorotate dehydrogenase
717824-53-8 717824-54-9 717824-57-2
717824-60-7 717824-64-1 717824-86-7
717825-01-9 717825-16-6 717825-40-6
717825-46-2
RL: PRP (Properties)
(dihydroorotate dehydrogenase inhibitors and inhibitor identification method)

RN 669063-49-4 CAPLUS

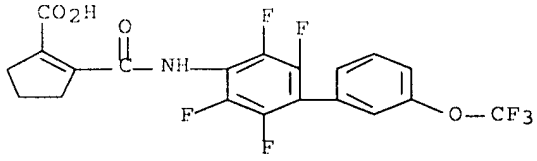
CN 1-Cyclopentene-1-carboxylic acid, 2-[[[3-fluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



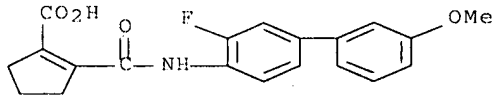
RN 669063-57-4 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[[3,5-difluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



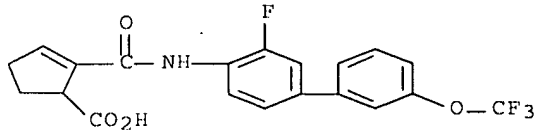
RN 669063-59-6 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[[2,3,5,6-tetrafluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 717824-30-1 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)

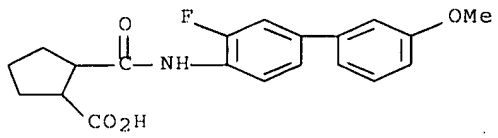


RN 717824-33-4 CAPLUS
CN 2-Cyclopentene-1-carboxylic acid, 2-[[[3-fluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)

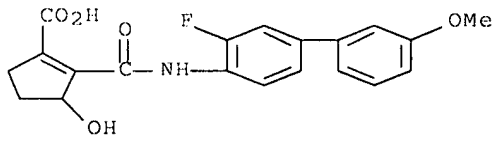


RN 717824-34-5 CAPLUS

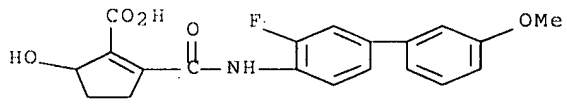
CN Cyclopentanecarboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)



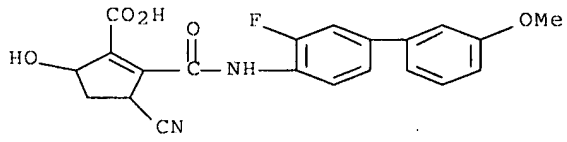
RN 717824-35-6 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]-3-hydroxy- (9CI) (CA INDEX NAME)



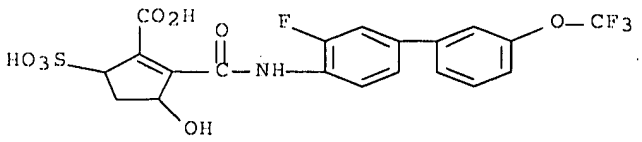
RN 717824-36-7 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]-5-hydroxy- (9CI) (CA INDEX NAME)



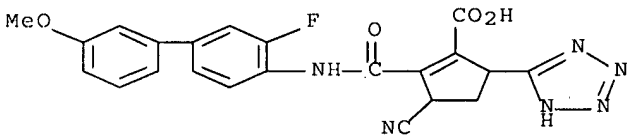
RN 717824-53-8 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 3-cyano-2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]-5-hydroxy- (9CI) (CA INDEX NAME)



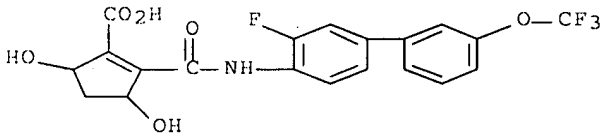
RN 717824-54-9 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[[3-fluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]-3-hydroxy-5-sulfo- (9CI) (CA INDEX NAME)



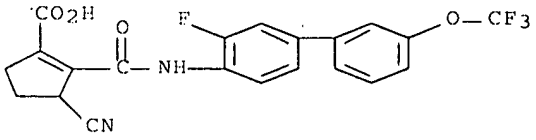
RN 717824-57-2 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 3-cyano-2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]-5-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



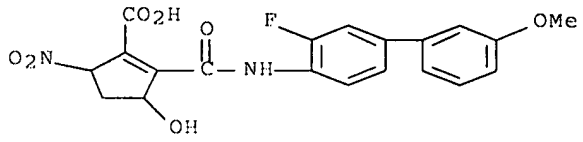
RN 717824-60-7 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[[3-fluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]-3,5-dihydroxy- (9CI) (CA INDEX NAME)



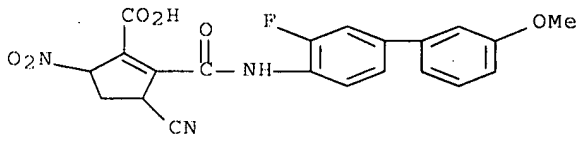
RN 717824-64-1 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 3-cyano-2-[[[3-fluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



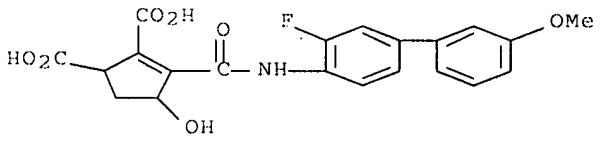
RN 717824-86-7 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]-3-hydroxy-5-nitro- (9CI) (CA INDEX NAME)



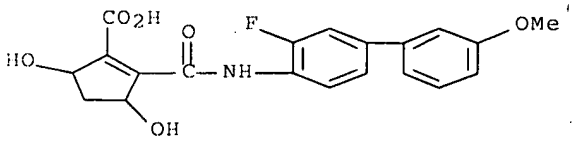
RN 717825-01-9 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 3-cyano-2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]-5-nitro- (9CI) (CA INDEX NAME)



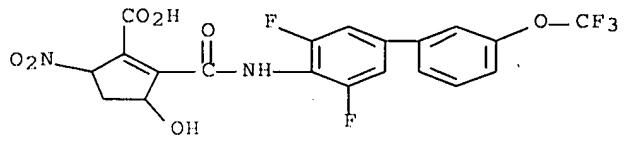
RN 717825-16-6 CAPLUS
CN 2-Cyclopentene-1,2-dicarboxylic acid, 3-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]-4-hydroxy- (9CI) (CA INDEX NAME)



RN 717825-40-6 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]-3,5-dihydroxy- (9CI) (CA INDEX NAME)



RN 717825-46-2 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[[3,5-difluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]-3-hydroxy-5-nitro- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:550930 CAPLUS Full-text
DOCUMENT NUMBER: 141:106198
TITLE: A preparation of cycloalkenedicarboxylic acid derivatives, useful as dihydroorotate dehydrogenase (DHODH) inhibitors
INVENTOR(S): Leban, Johann; Kralik, Martin
PATENT ASSIGNEE(S): 4SC A.-G., Germany
SOURCE: PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056746	A1	20040708	WO 2003-EP14434	20031217
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US 7071355	B2	20060704		
US 2004192758	A1	20040930	US 2003-736742	20031217
EP 1581477	A1	20051005	EP 2003-799487	20031217
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CN 1732163	A	20060208	CN 2003-80107354	20031217
CN 1732147	A	20060208	CN 2003-80107355	20031217
JP 2006511564	T	20060406	JP 2004-561332	20031217
US 2007027193	A1	20070201	US 2004-736739	20041110
ZA 2005004387	A	20060222	ZA 2005-4387	20050530
IN 2005MN00816	A	20051111	IN 2005-MN816	20050722
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			US 2002-435258P P	20021223
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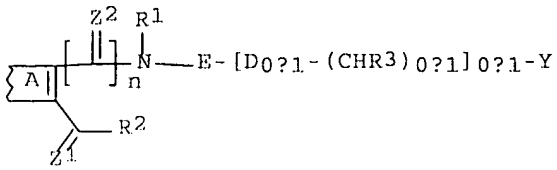
			WO 2003-EP14434 W	20031217

TD

Current App.

OTHER SOURCE(S): MARPAT 141:106198

GI



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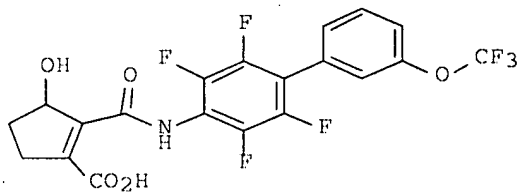


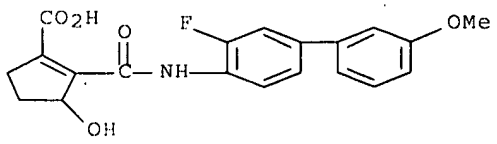
II

AB The invention relates to a prepn. of cycloalkenedicarboxylic acid derivs. of formula I [wherein: A is a non-arom. ring contg. 4 to 8 carbon atoms, wherein the ring system comprises at least one double bond and wherein one or more of the carbon atoms in the ring can be replaced by S, O, N, or S(O), etc.; D is O, S, SO2, or CH2, etc.; Z1 and Z2 are independently selected from O, S, or NH, etc. ; R1 is H or alkyl; R2 is H, OH, O-(cyclo)alkyl, or NH2, etc.; R3 is H, (cyclo)alkyl, aryl, alkoxy, halogen, or O-aryl, etc.; E is an alkyl or cycloalkyl group or a (mono/poly)cyclic (un)substituted ring system; Y is H, halogen, haloalkyl, haloalkyloxy, alkyl, cycloalkyl, a monocyclic or polycyclic (un)substituted ring system; n is 0 or 1], useful as antiinflammatory, immunomodulatory and antiproliferatory agents. The obtained compds. were screened in inhibition assay for dihydroorotate dehydrogenase (DHODH) activity. For instance, cyclopentenecarboxylic acid deriv. II showed IC50 value (human DHODH) of < 1.mu.M.

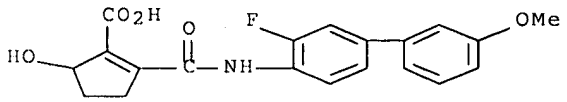
IT 717824-35-6P 717824-36-7P 719301-48-1P
719301-49-2P 719301-50-5P 719301-52-7P
719301-53-8P 719301-54-9P 719301-55-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of cycloalkenedicarboxylic acid derivs., useful as antiinflammatory, immunomodulatory and antiproliferatory agents)

RN 717824-35-6 CAPLUS

CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]-3-hydroxy- (9CI) (CA INDEX NAME)



RN 717824-36-7 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]-5-hydroxy- (9CI) (CA INDEX NAME)



RN 719301-48-1 CAPLUS
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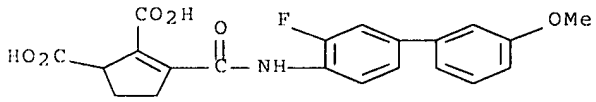
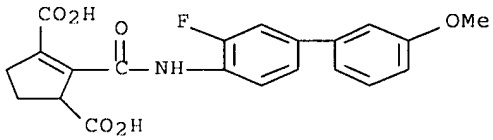


RN 719301-49-2 CAPLUS
CN 1-Cyclopentene-1,3-dicarboxylic acid, 2-[[(3-fluoro-3'-methoxy[1,1'-biphenyl]-4-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 719301-50-5 CAPLUS
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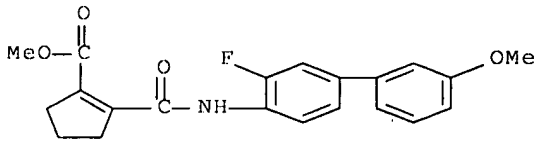
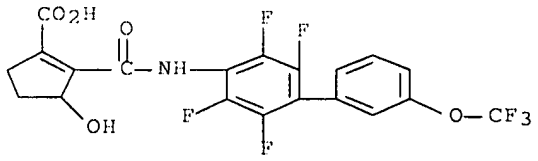
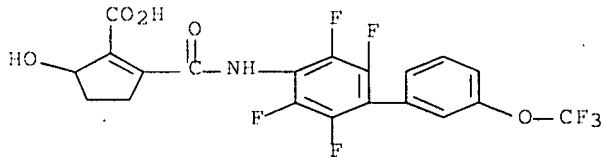


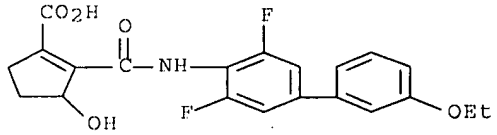
RN 719301-52-7 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 3-hydroxy-2-[[[2,3,5,6-tetrafluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



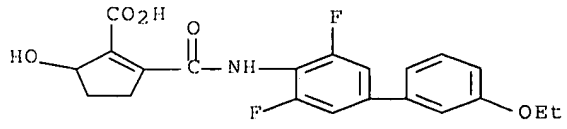
RN 719301-53-8 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 5-hydroxy-2-[[[2,3,5,6-tetrafluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 719301-54-9 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3'-ethoxy-3,5-difluoro[1,1'-biphenyl]-4-yl)amino]carbonyl]-3-hydroxy- (9CI) (CA INDEX NAME)



RN 719301-55-0 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3'-ethoxy-3,5-difluoro[1,1'-biphenyl]-4-yl)amino]carbonyl]-5-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:981447 CAPLUS Full-text

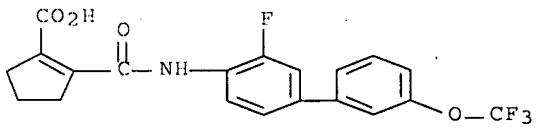
late.

DOCUMENT NUMBER: 140:246103
TITLE: Discovery of a novel series of DHODH inhibitors by a docking procedure and QSAR refinement
AUTHOR(S): Leban, Johann; Saeb, Wael; Garcia, Gabriel; Baumgartner, Roland; Kramer, Bernd
CORPORATE SOURCE: Martinsried, 82152, Germany
SOURCE: Bioorganic & Medicinal Chemistry Letters (2004), 14(1), 55-58
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:246103

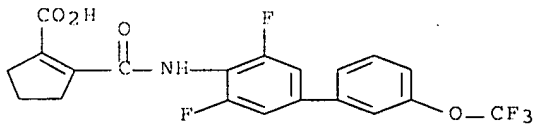
AB A novel series of DHODH (dihydroorotate dehydrogenase) inhibitors was developed based on a lead which was obtained by a docking procedure and a medicinal chem. exploration. The activity of the initial lead was improved by a QSAR method to yield low nanomolar inhibitors.

IT 669063-49-4P 669063-57-4P 669063-59-6P
669063-68-7P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(discovery of a novel series of dihydroorotate dehydrogenase inhibitors by a docking procedure and QSAR refinement)

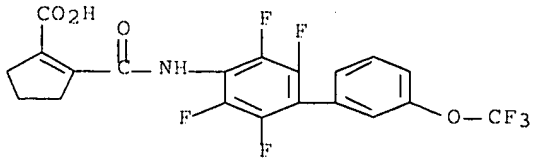
RN 669063-49-4 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[[3-fluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



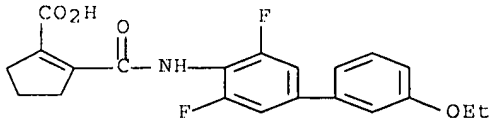
RN 669063-57-4 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[[3,5-difluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 669063-59-6 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[[2,3,5,6-tetrafluoro-3'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 669063-68-7 CAPLUS
CN 1-Cyclopentene-1-carboxylic acid, 2-[[(3'-ethoxy-3,5-difluoro[1,1'-biphenyl]-4-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	32.09	207.13
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.68	-4.68

STN INTERNATIONAL LOGOFF AT 11:02:31 ON 05 MAR 2007